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FIG. 1

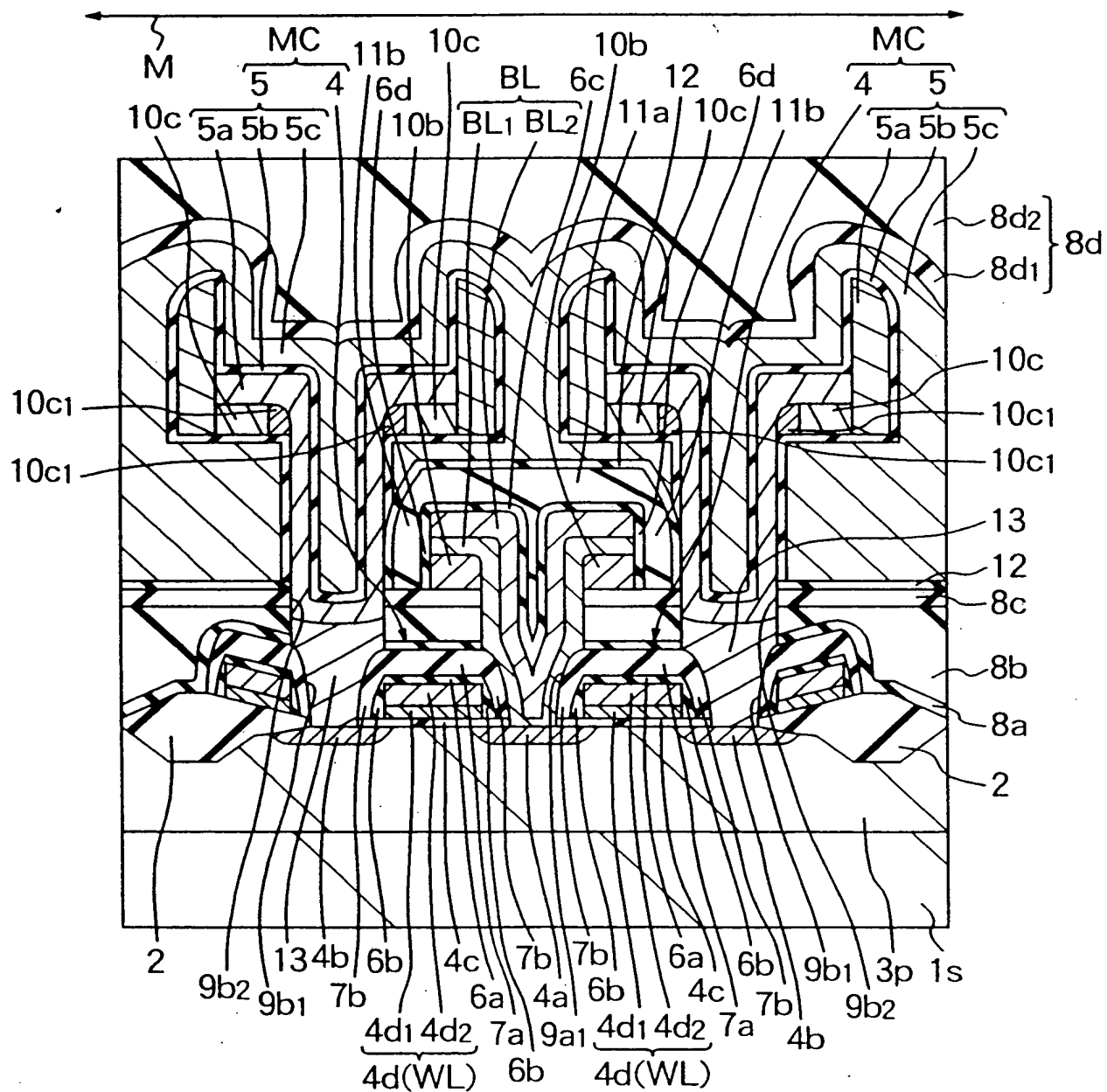


FIG. 2

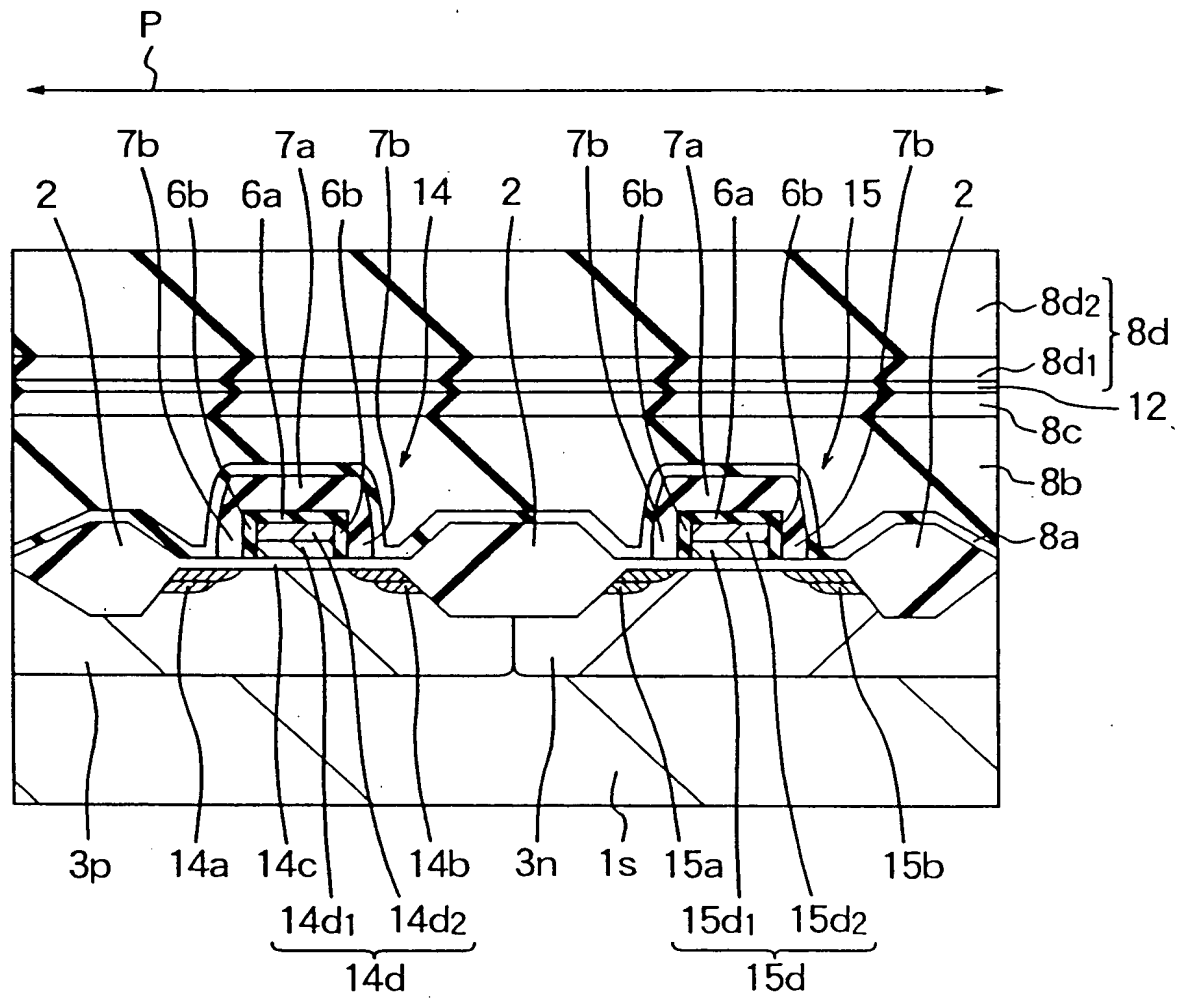


FIG. 3

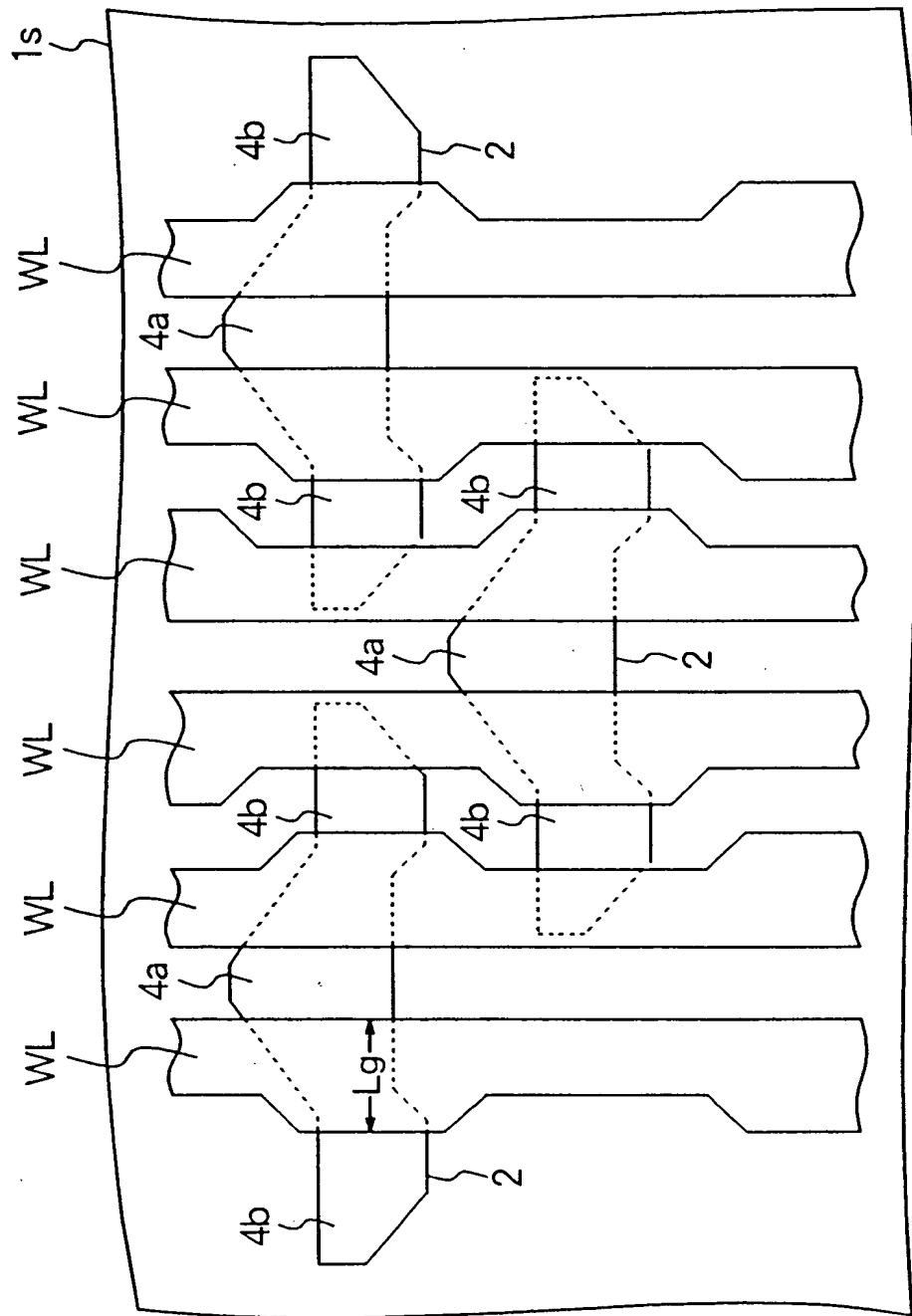


FIG. 4

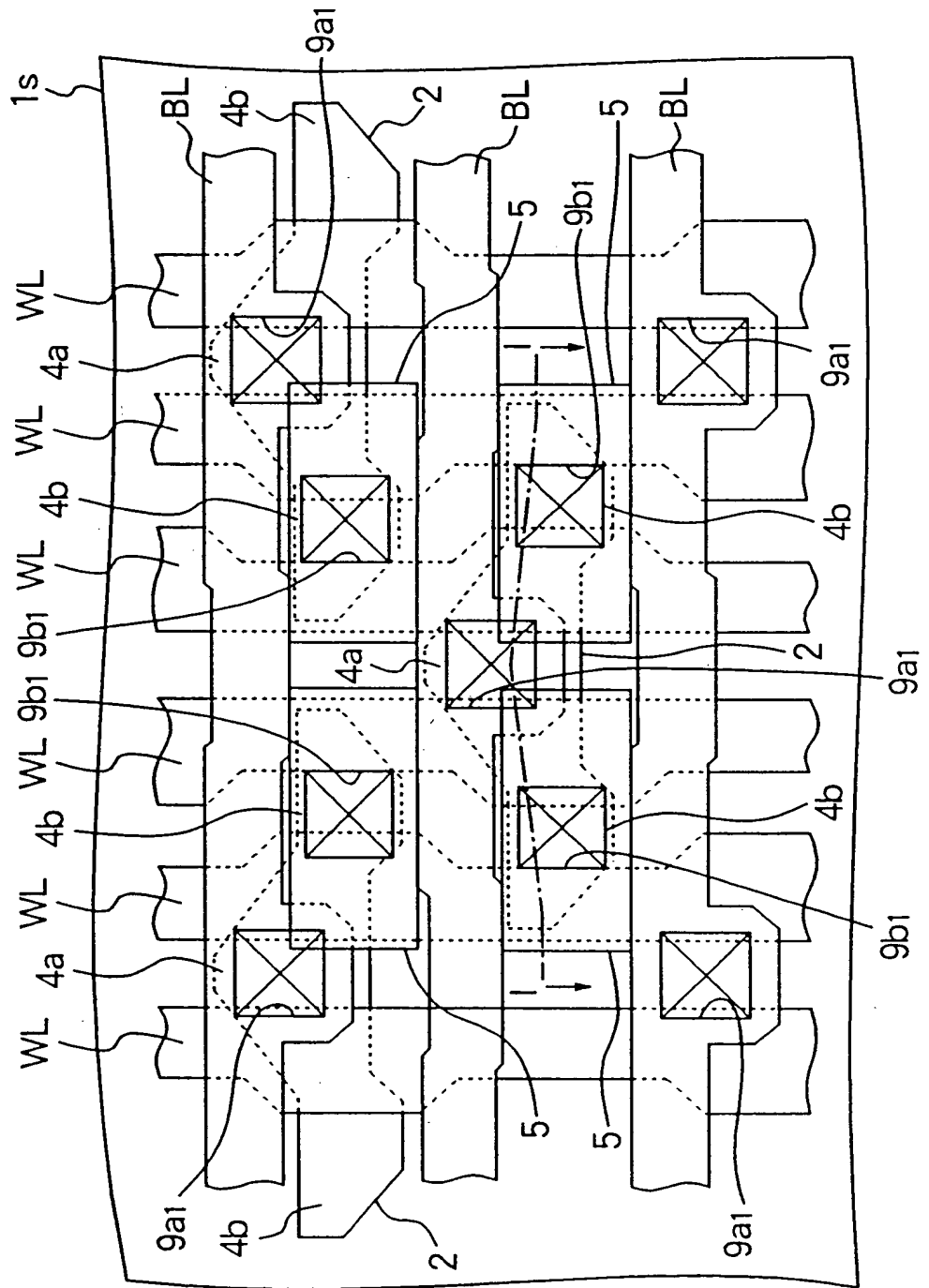


FIG. 5a

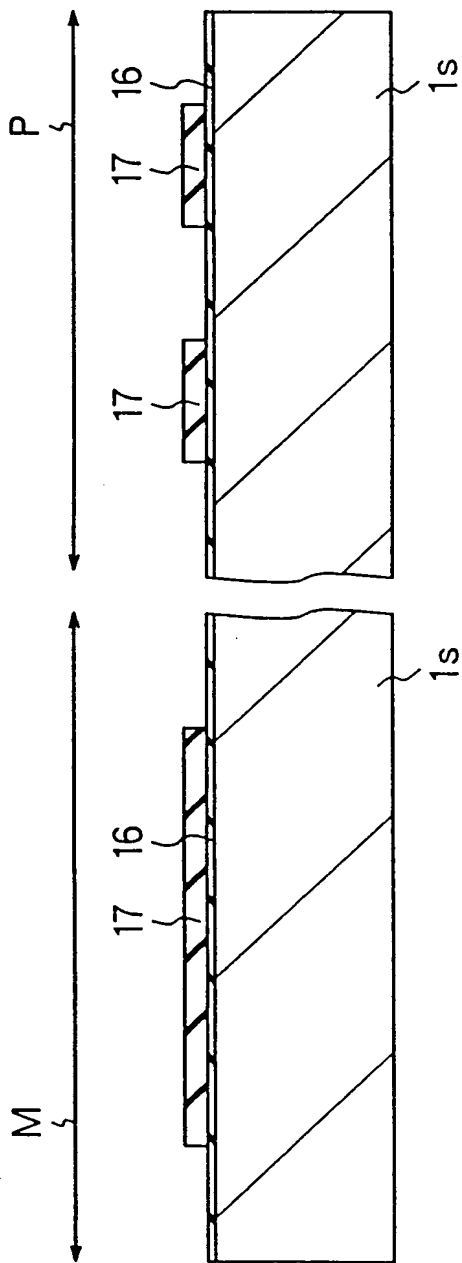


FIG. 5b

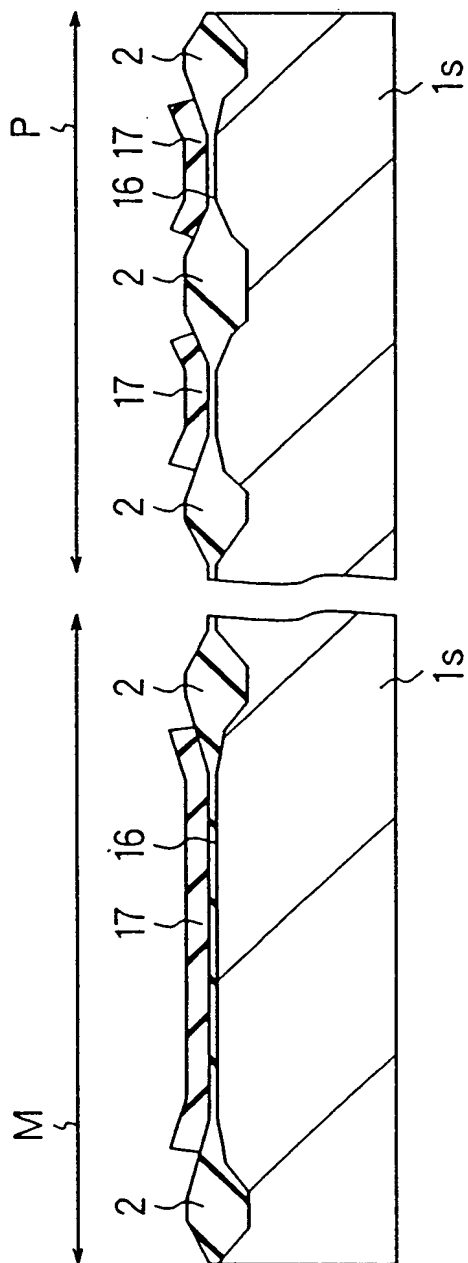


FIG. 5c

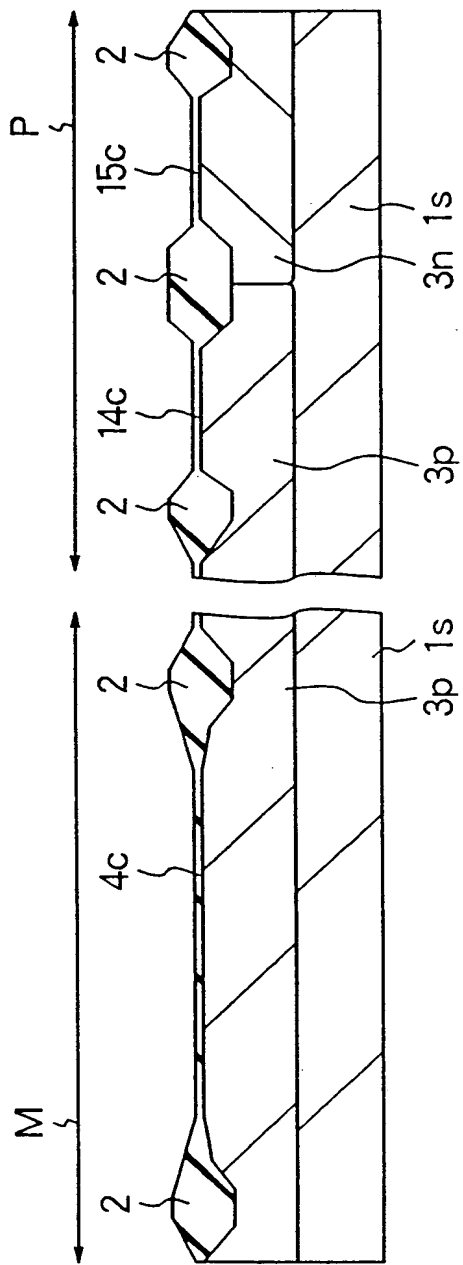


FIG. 5d

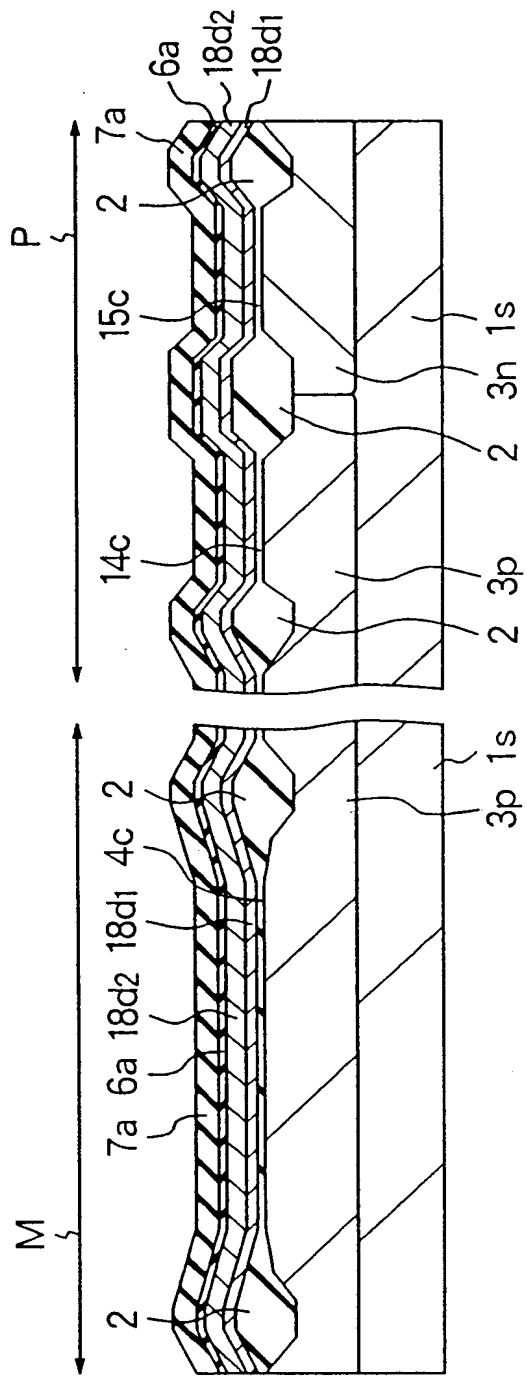
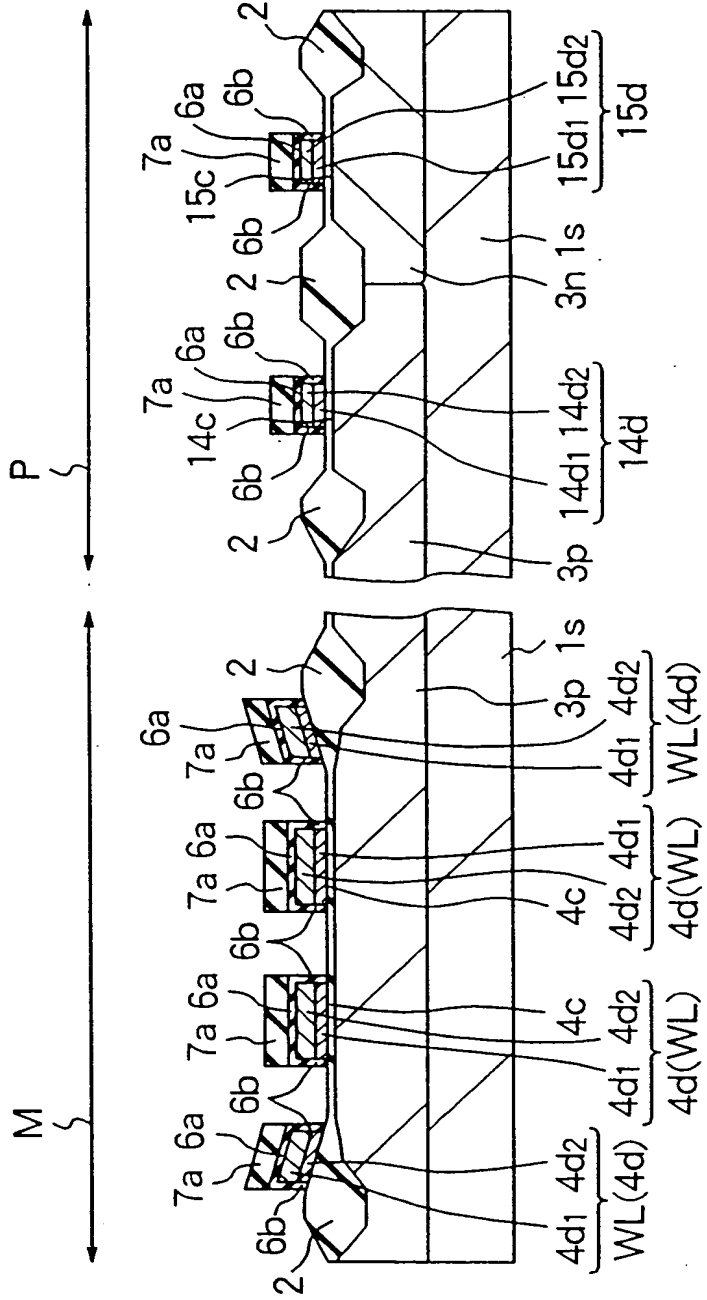


FIG. 5e



○



FIG. 5g

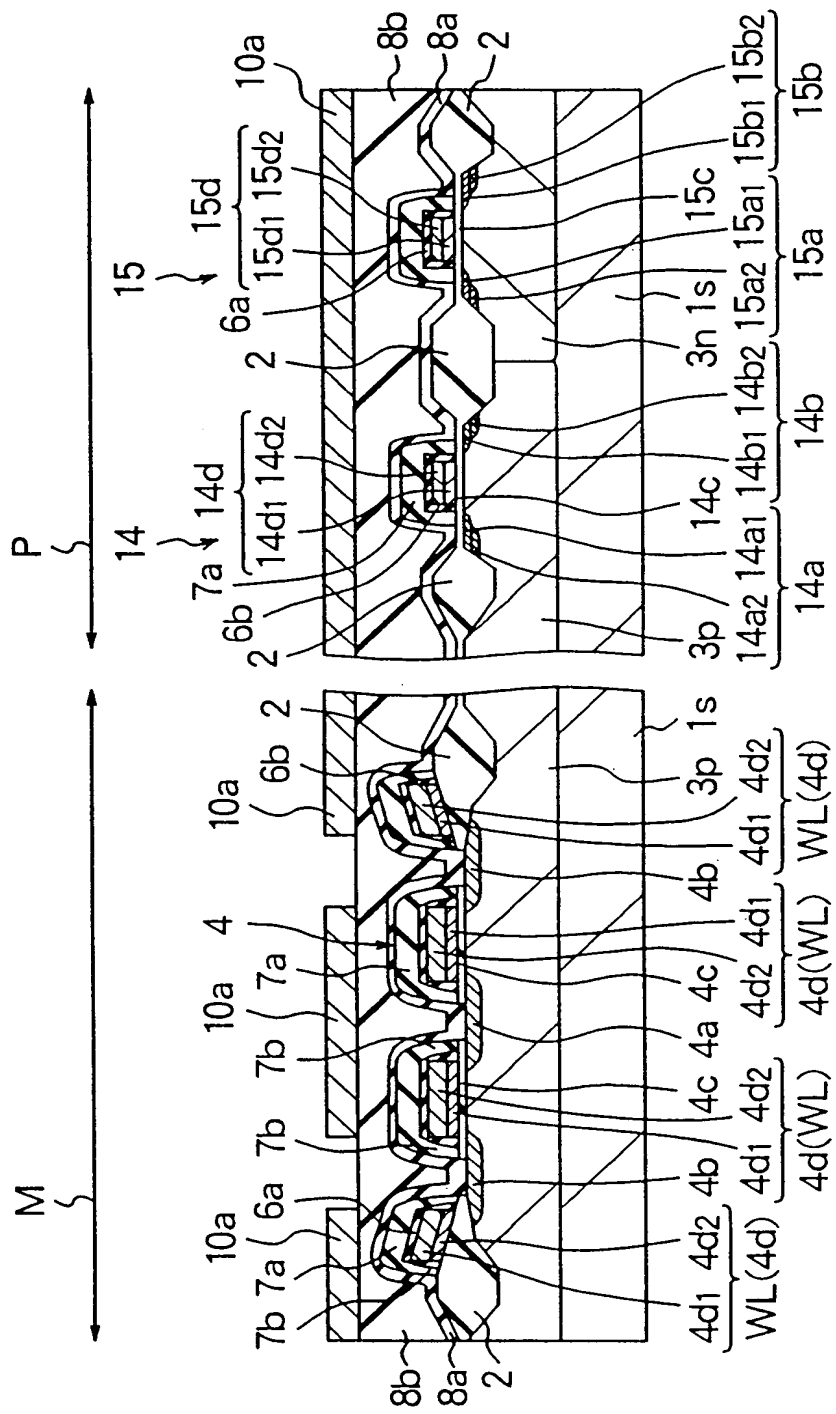


FIG. 5h

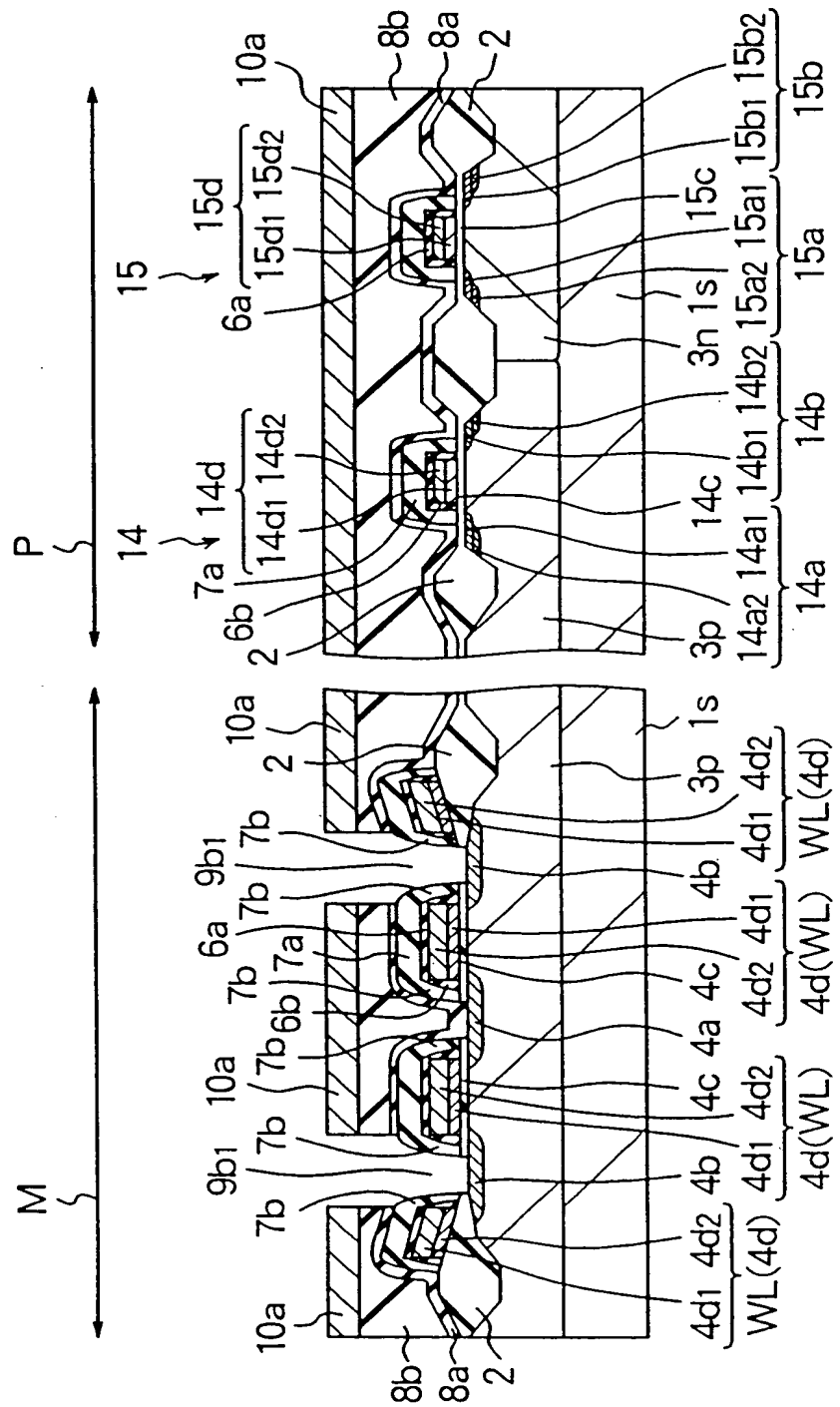


FIG. 5i

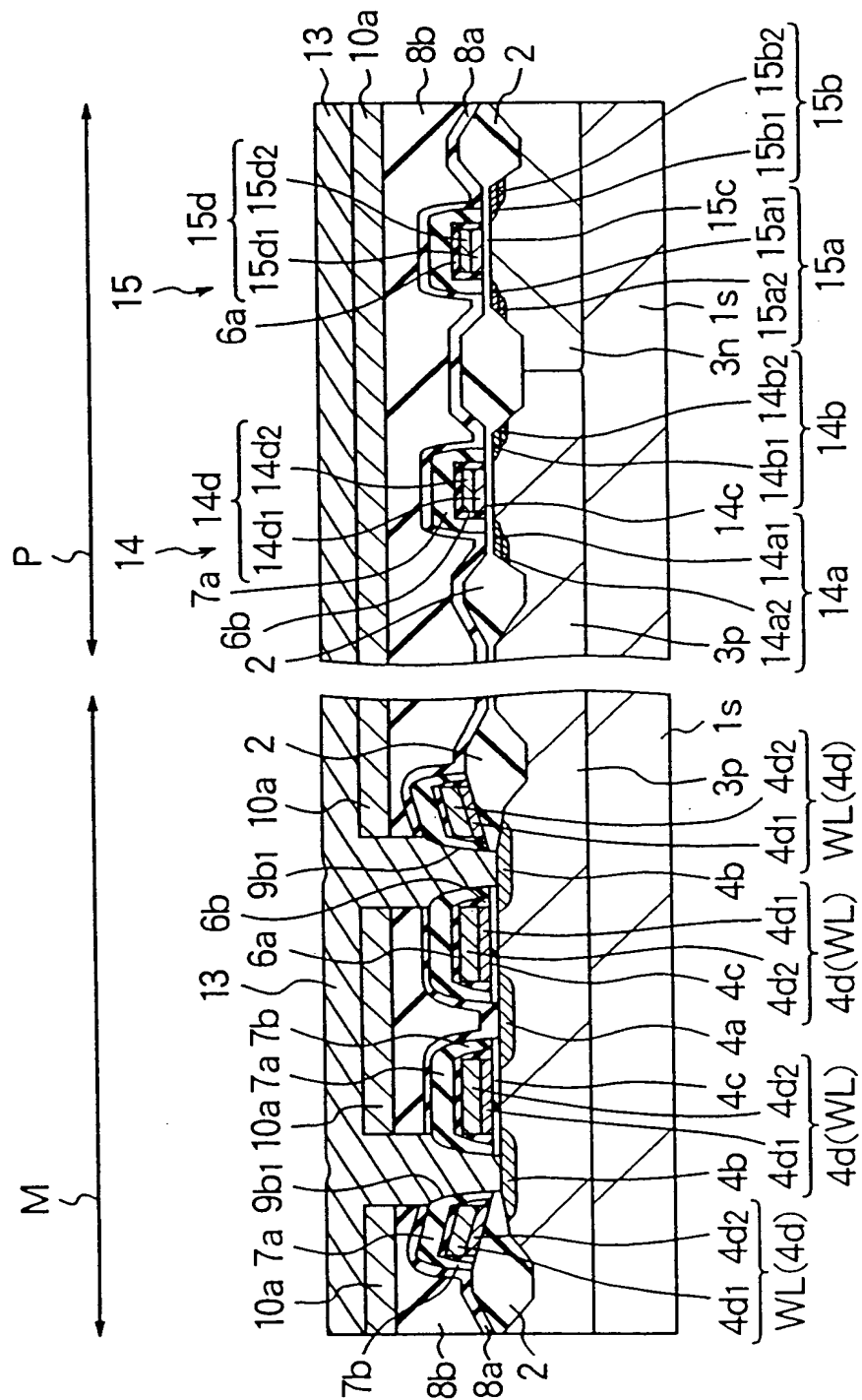


FIG. 5j

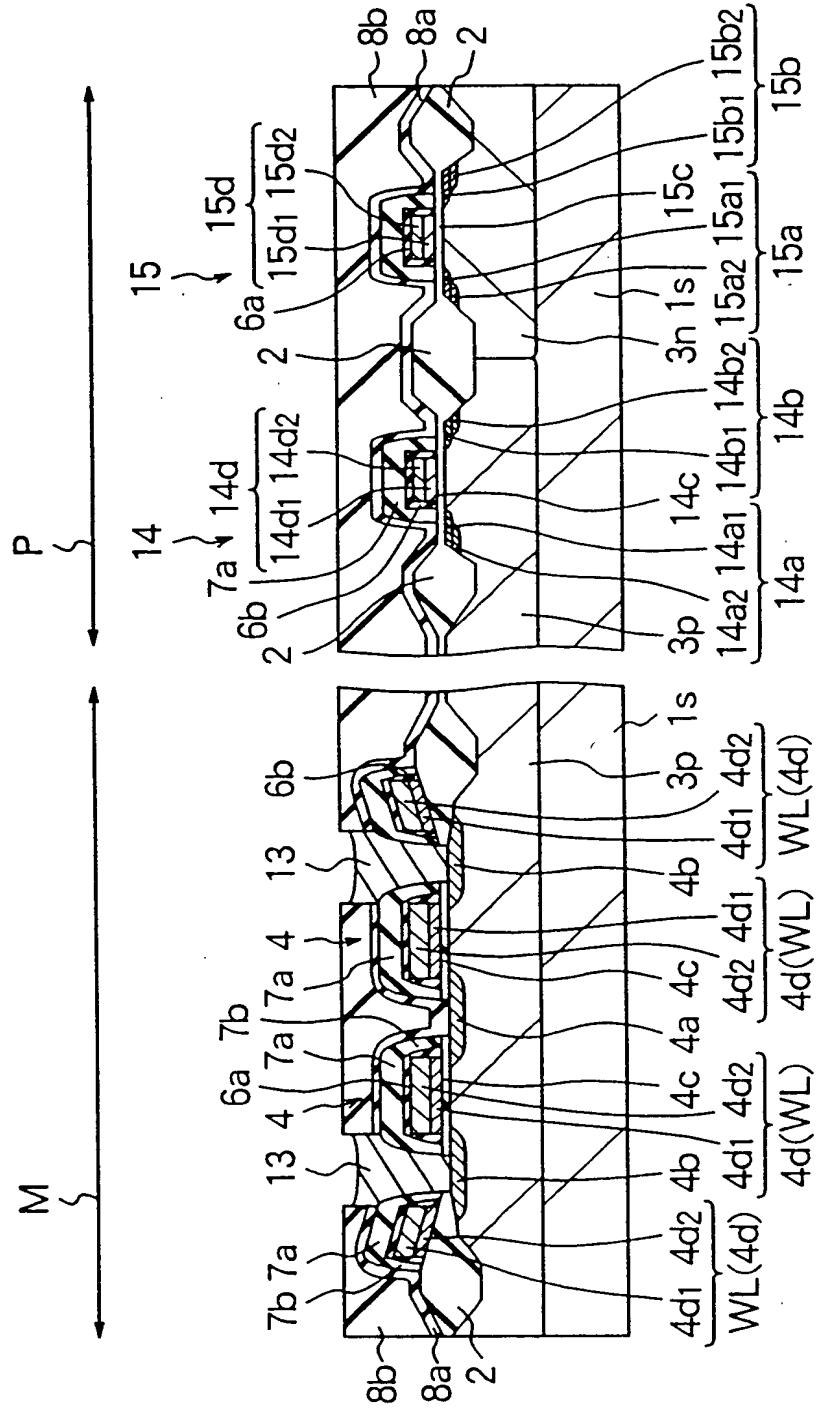


FIG. 5I

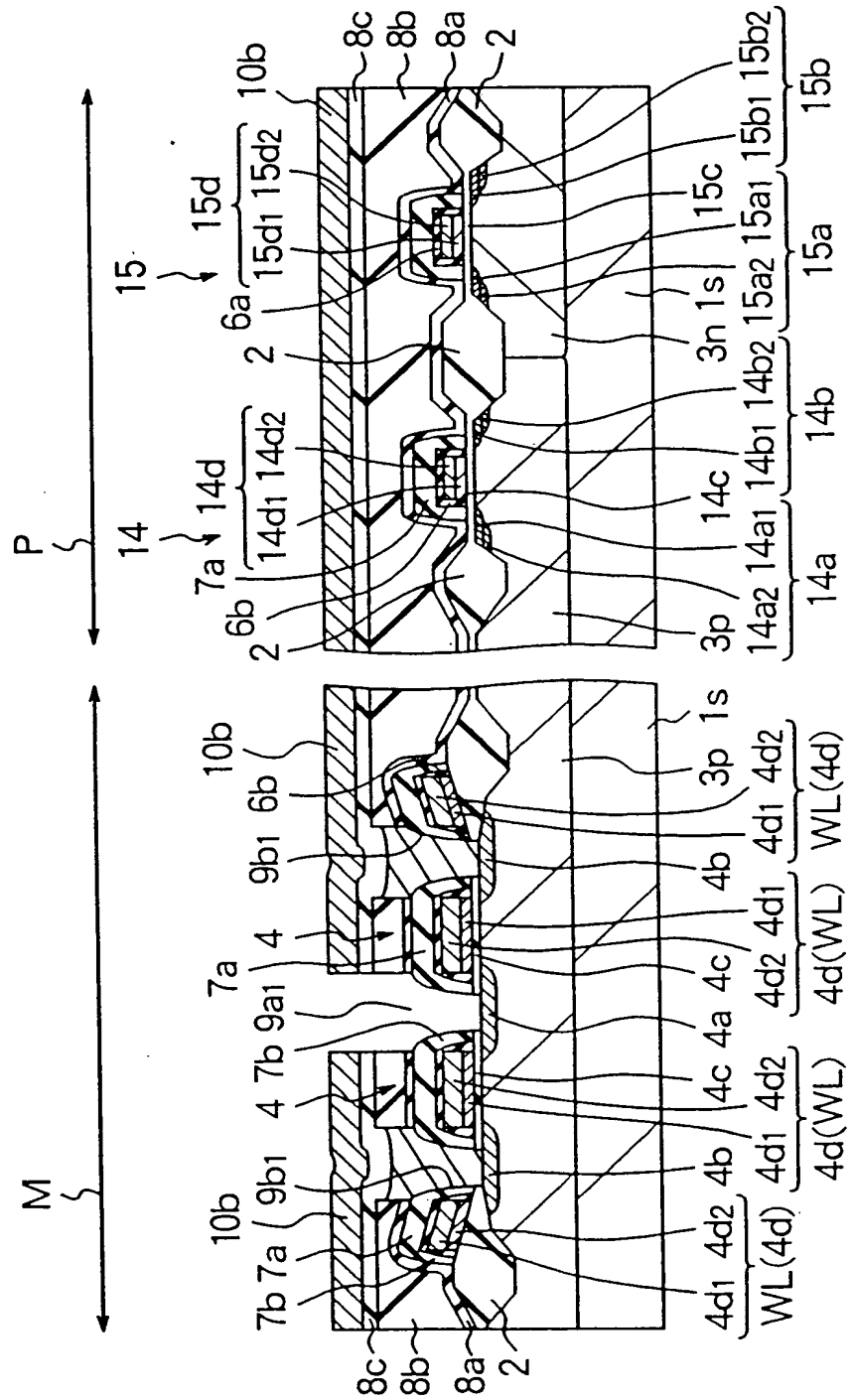


FIG. 5n

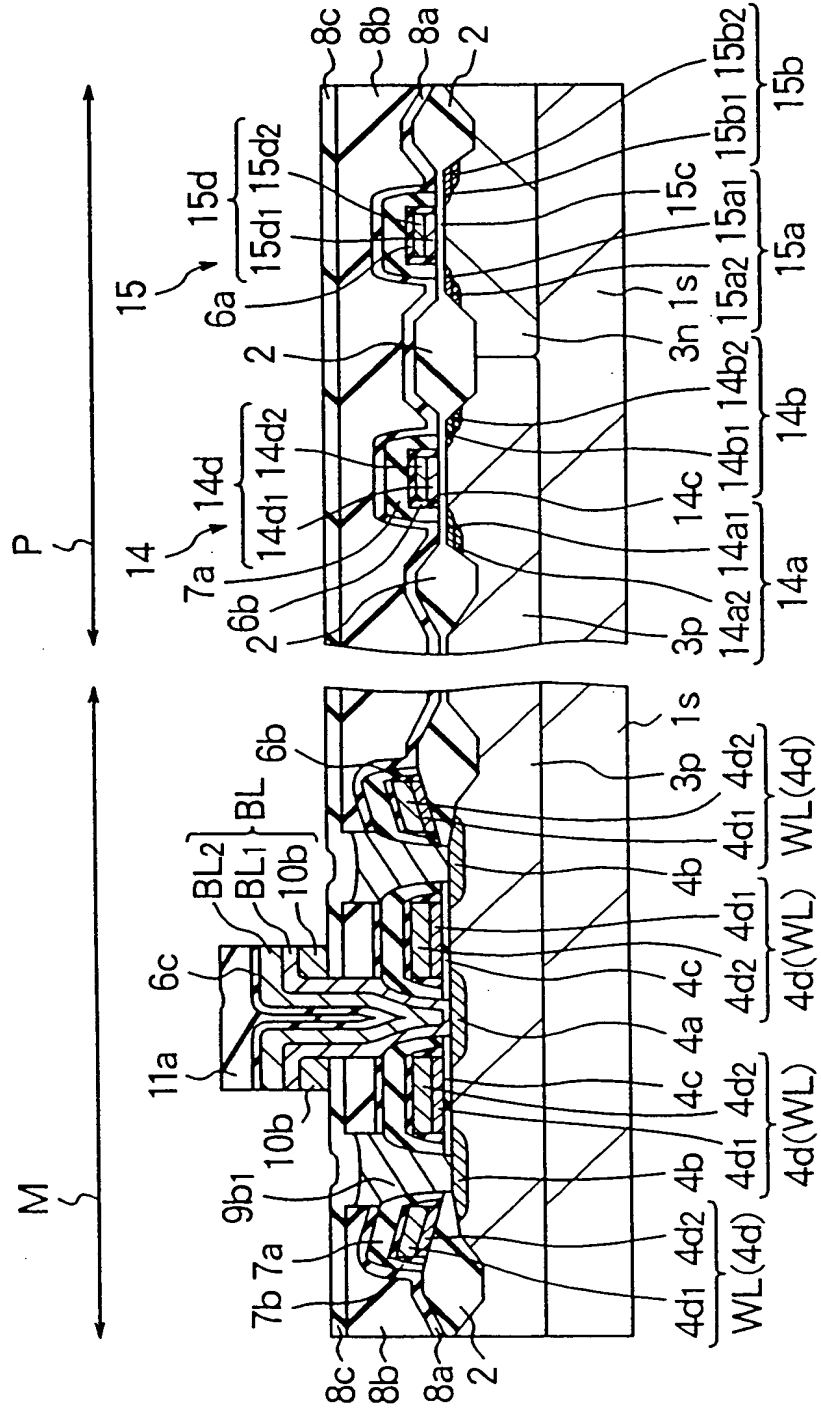


FIG. 50

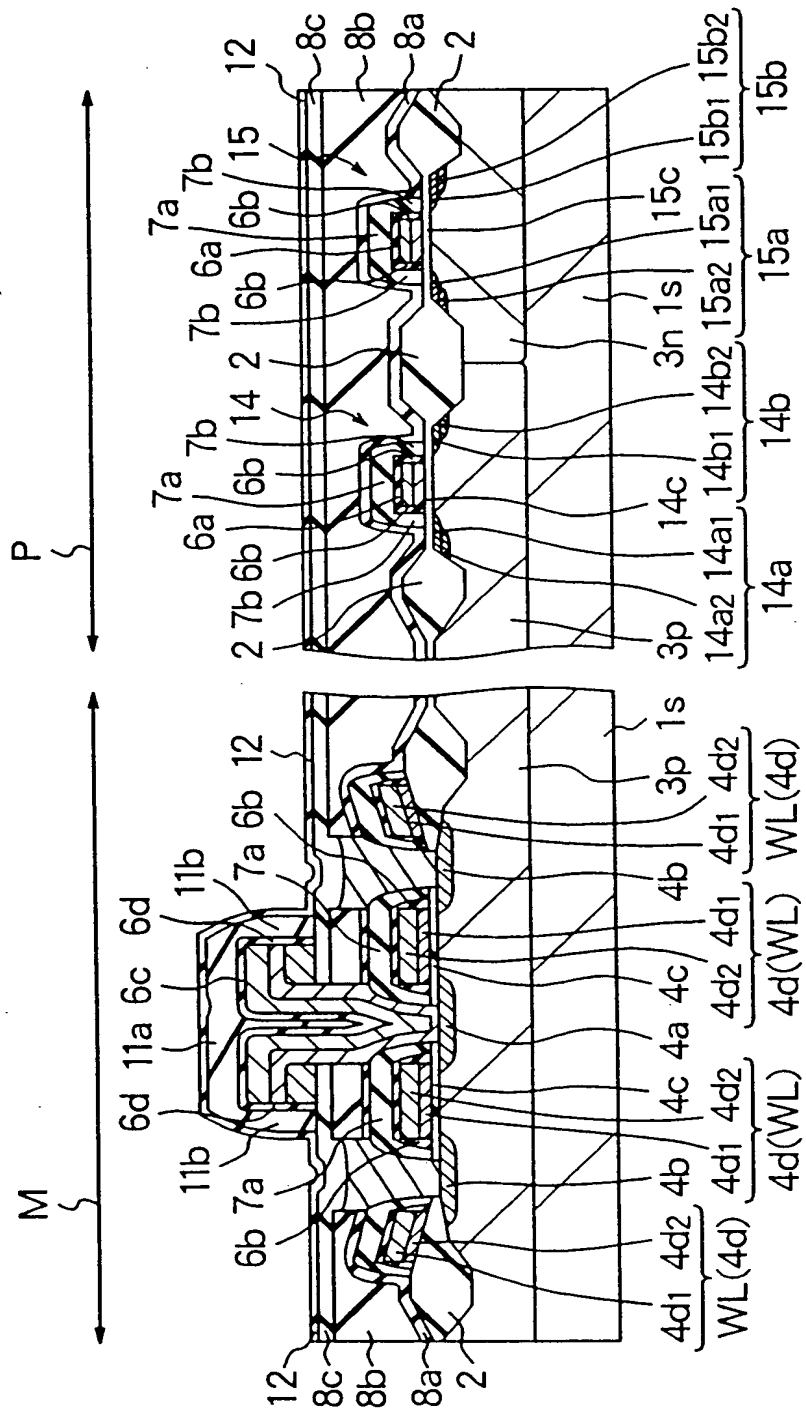
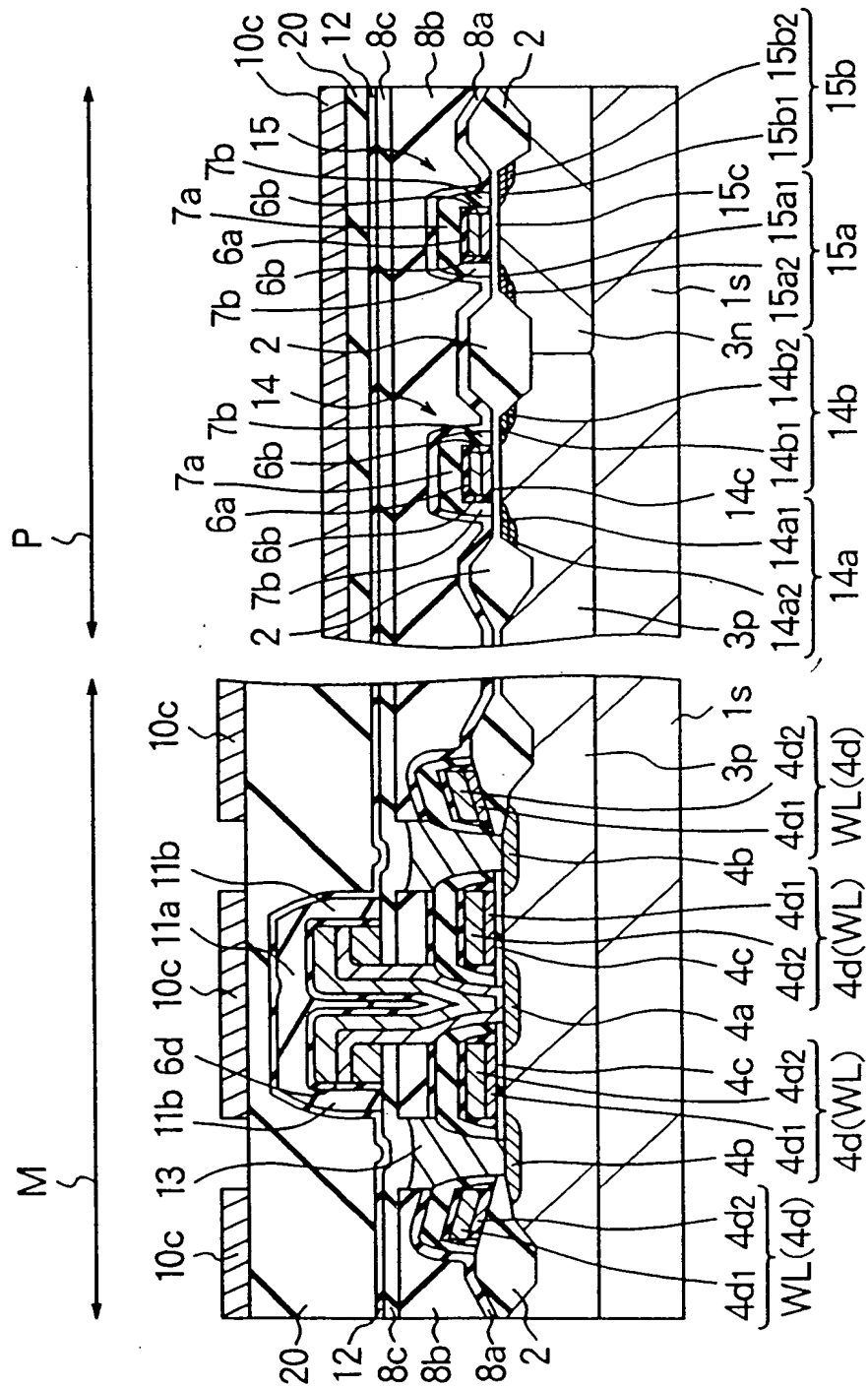


FIG. 5p



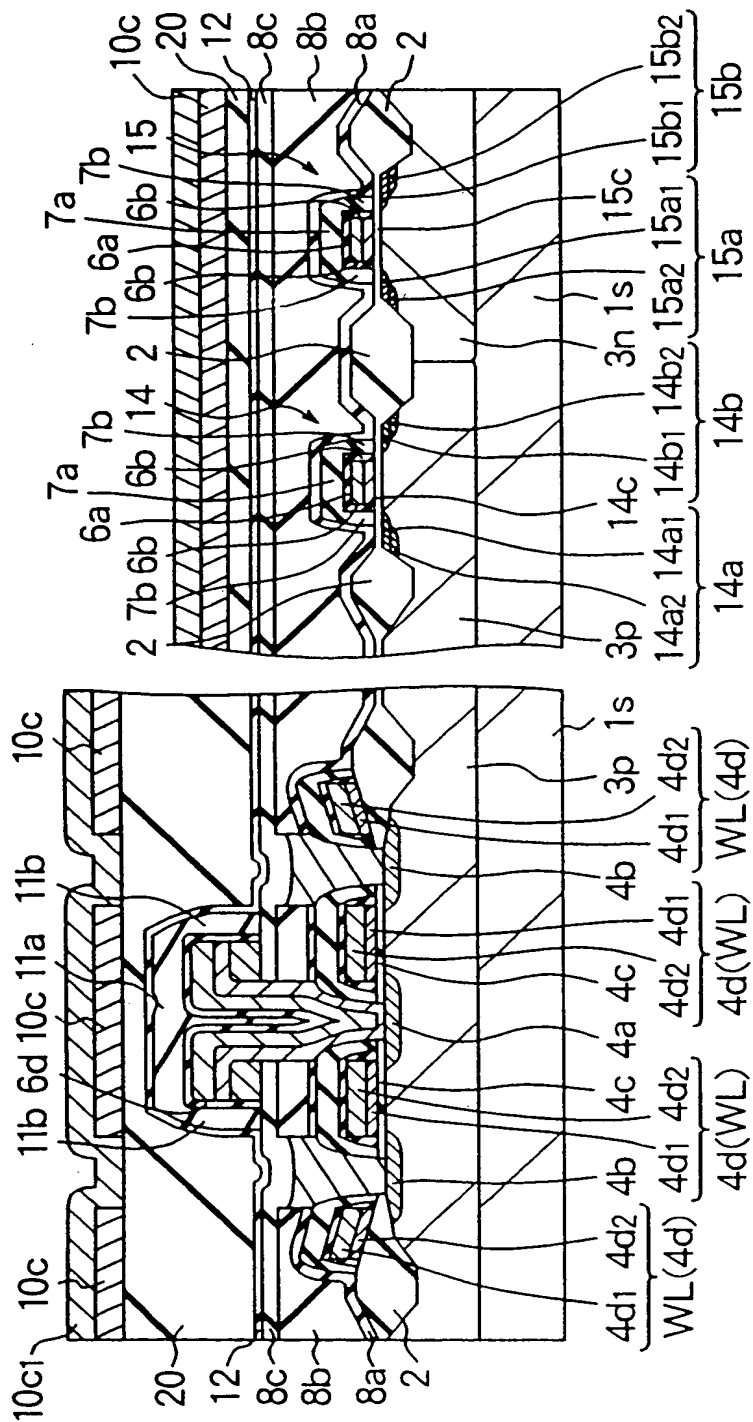


FIG. 5r

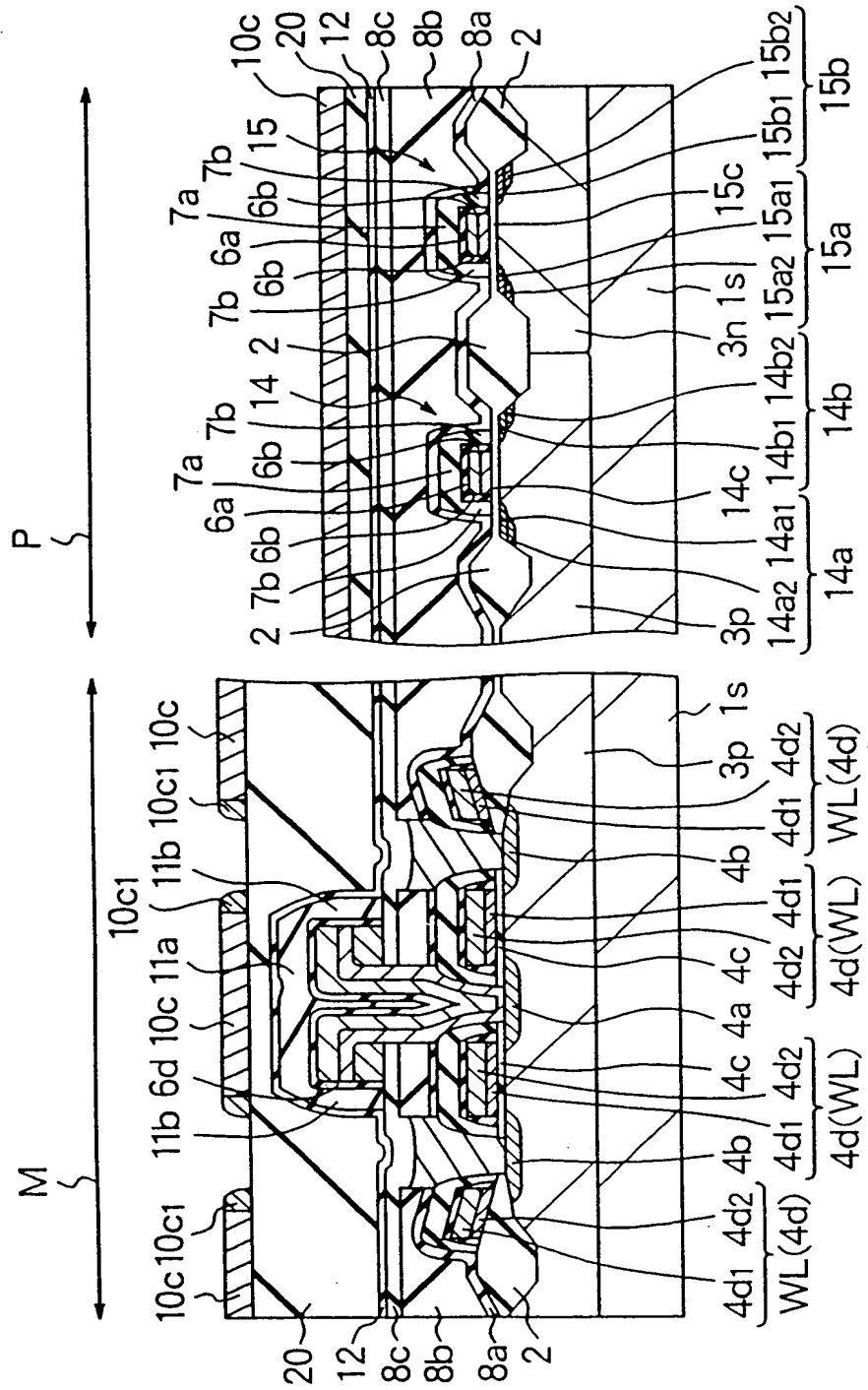


FIG. 5s

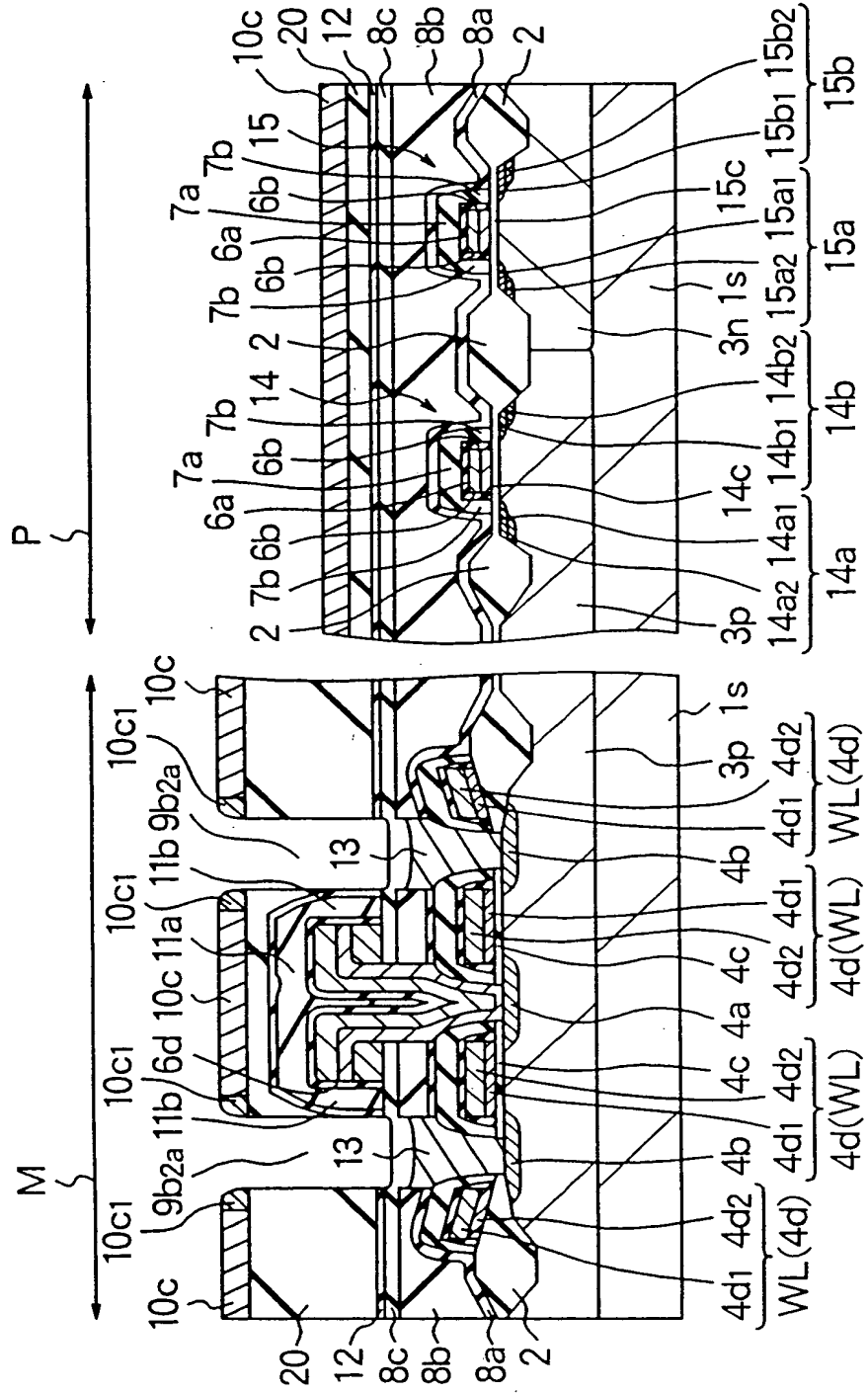


FIG. 5t

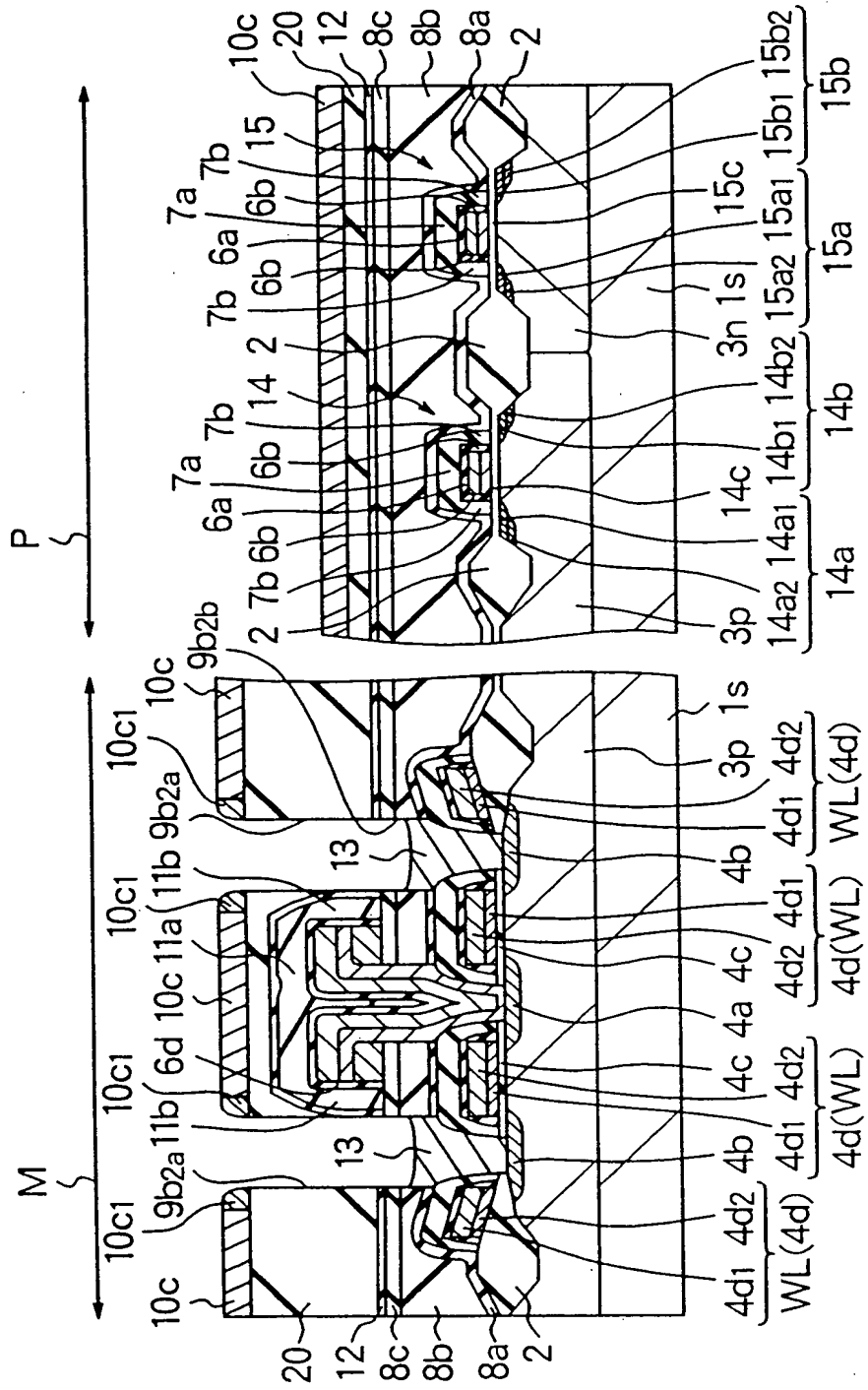


FIG. 5u1

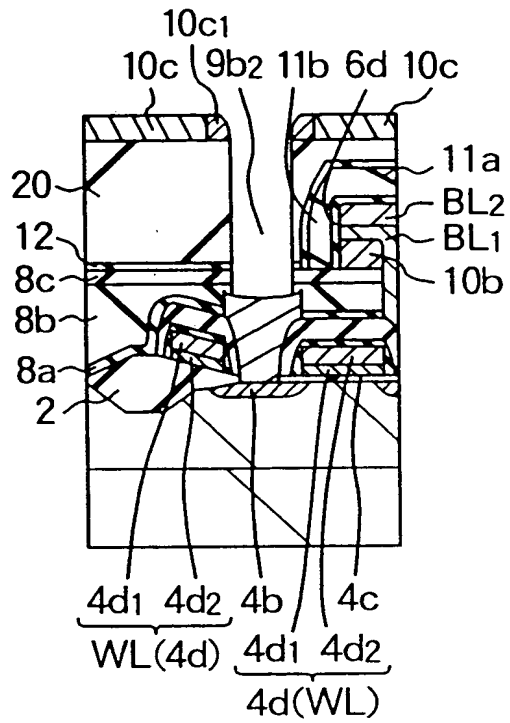
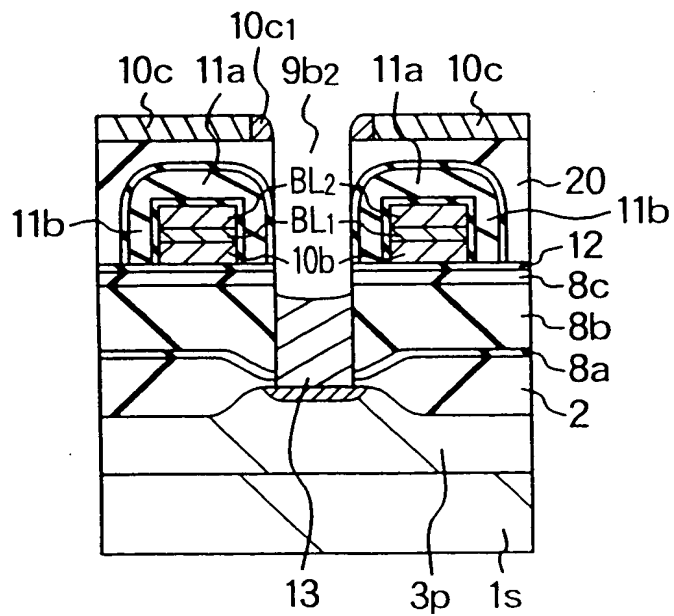
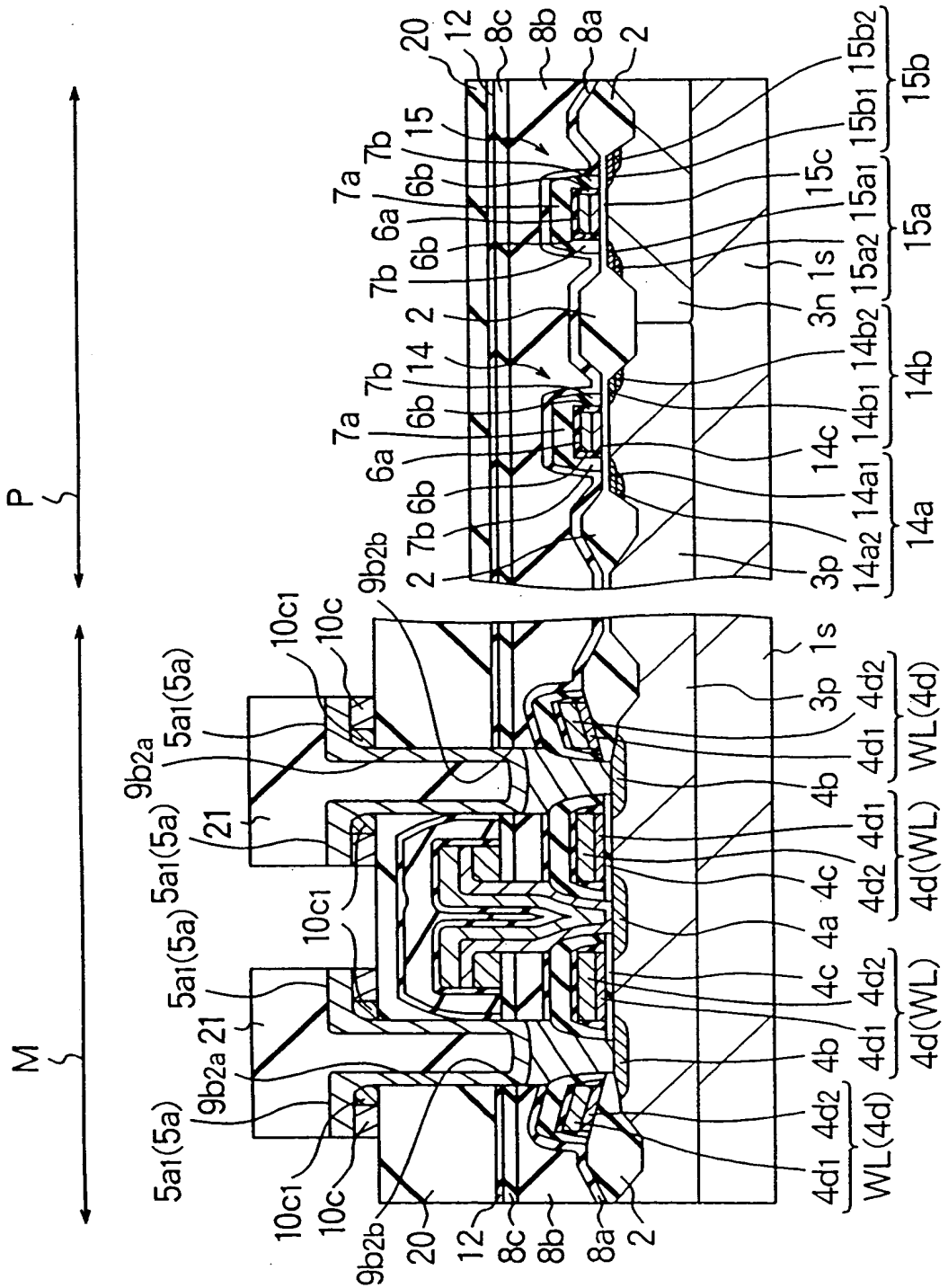


FIG. 5u2



[illegible]

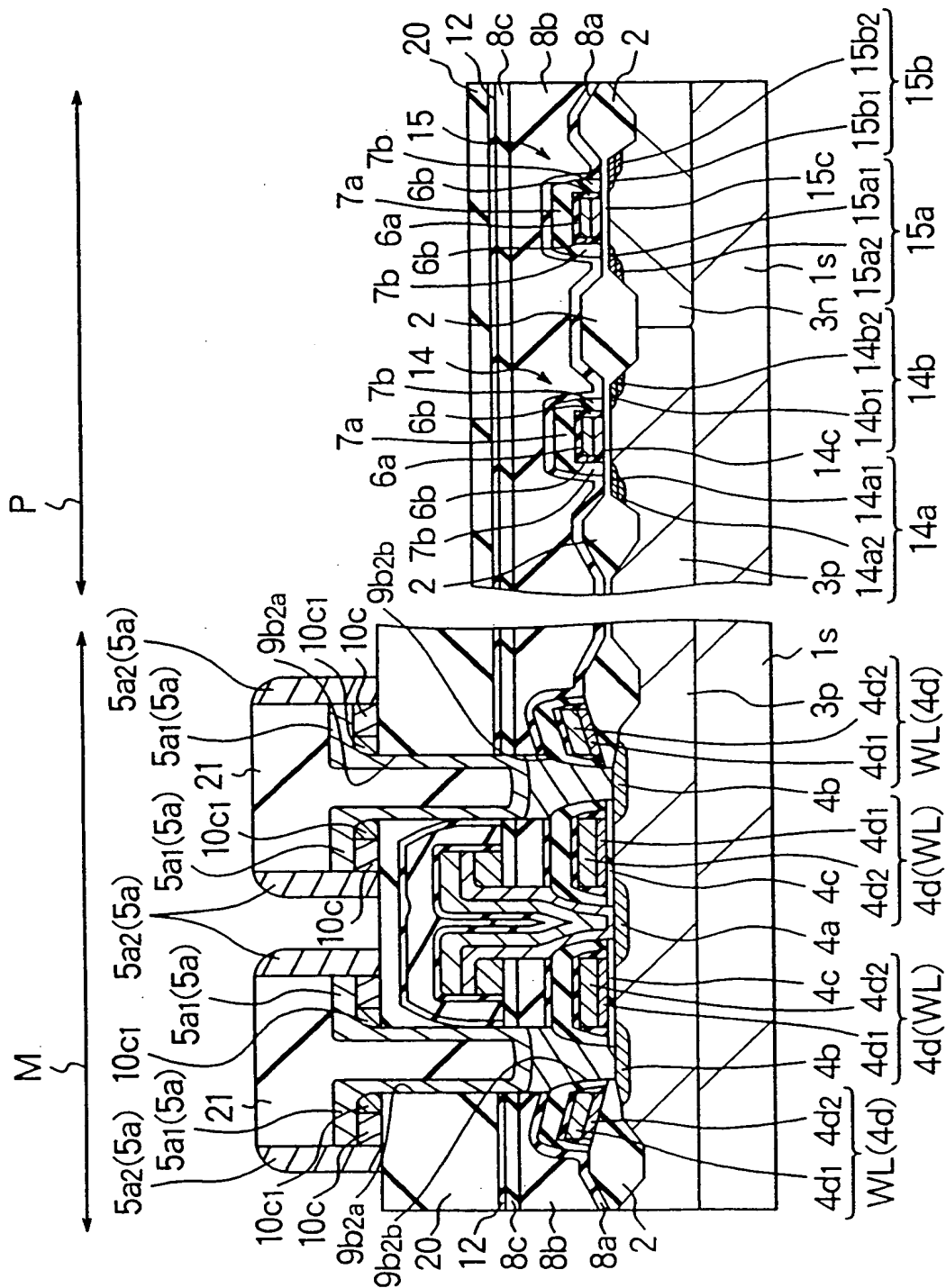


FIG. 6b

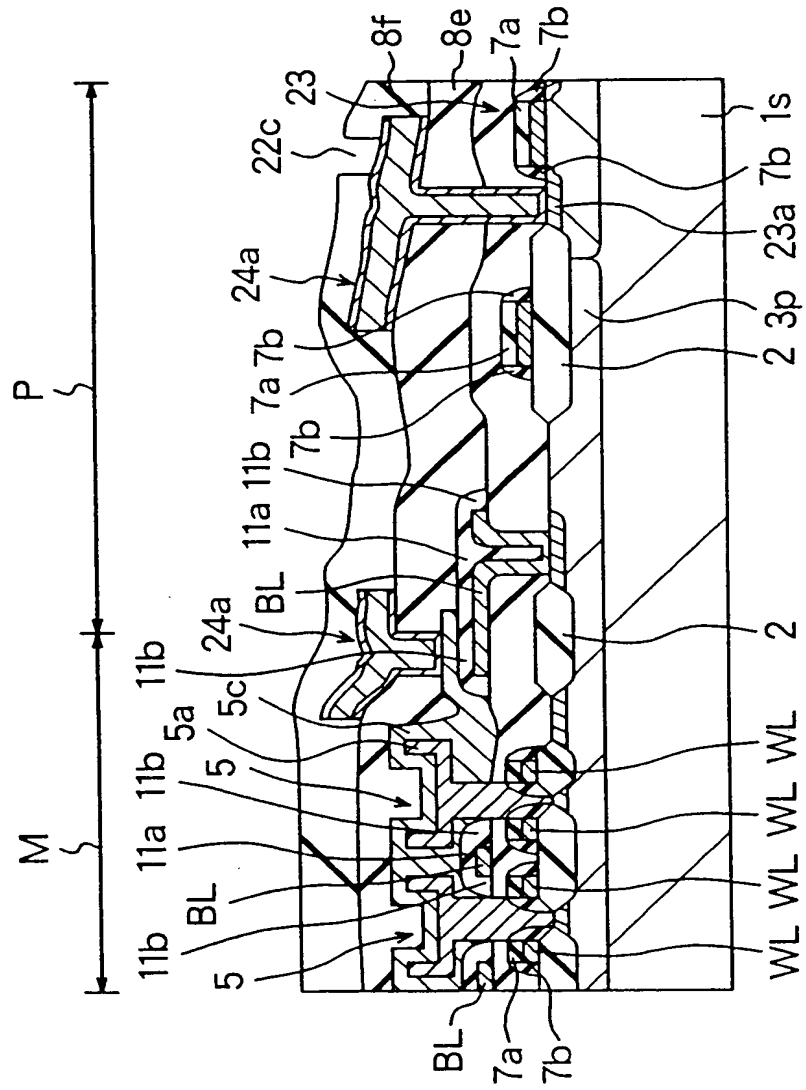


FIG. 6d

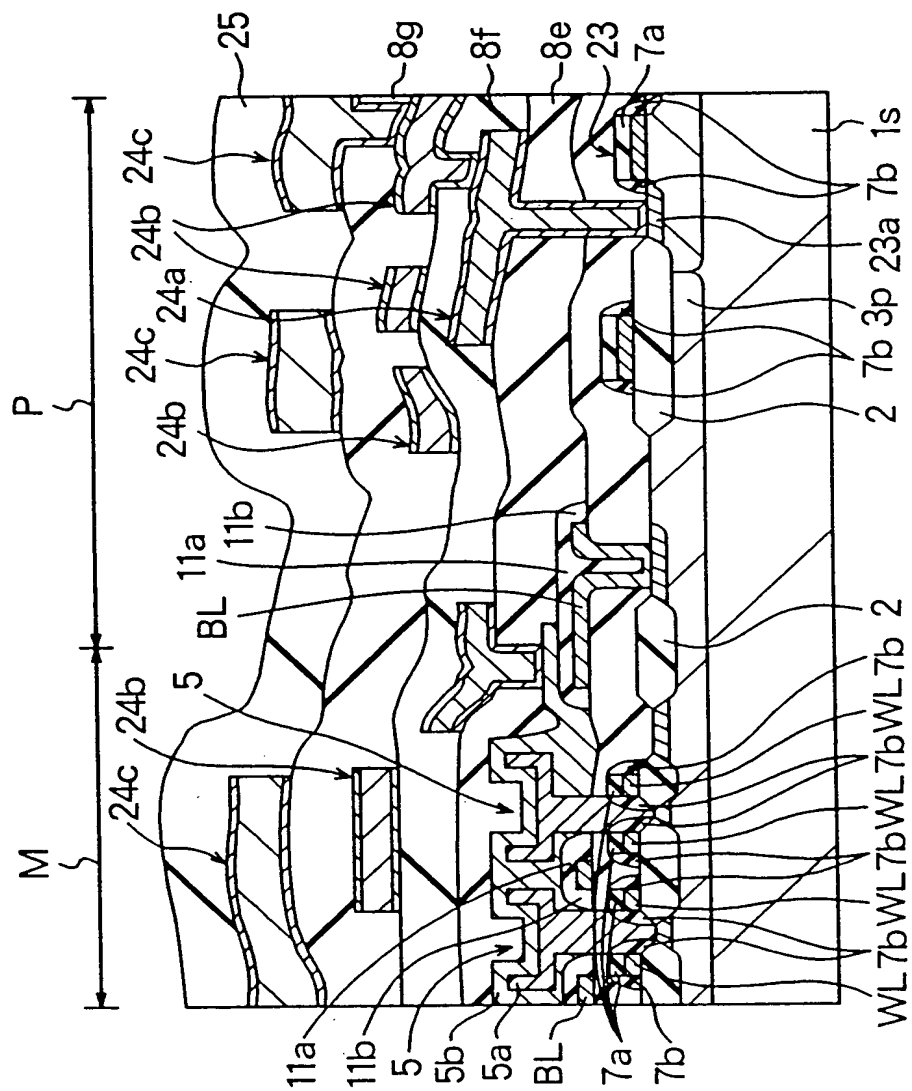


FIG. 7

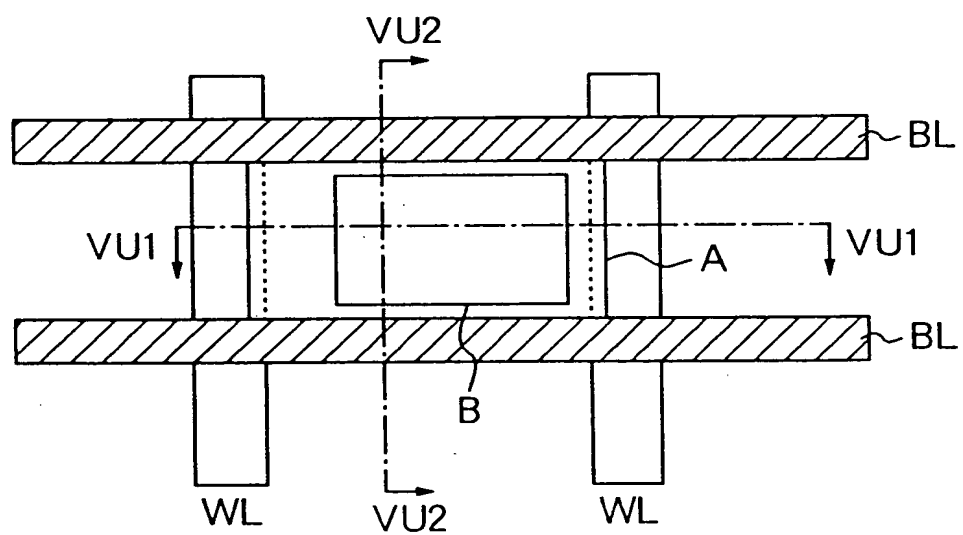


FIG. 8

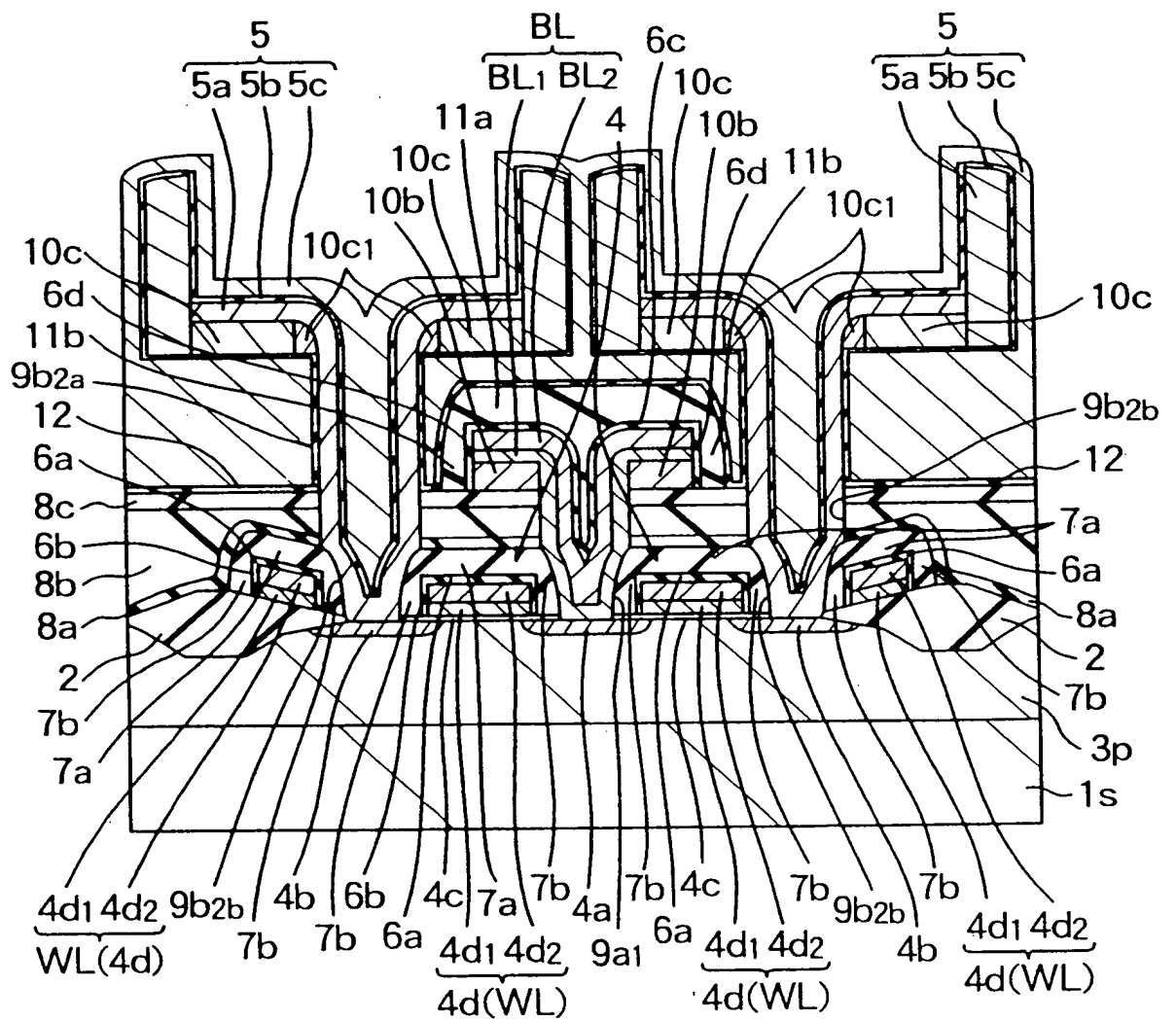
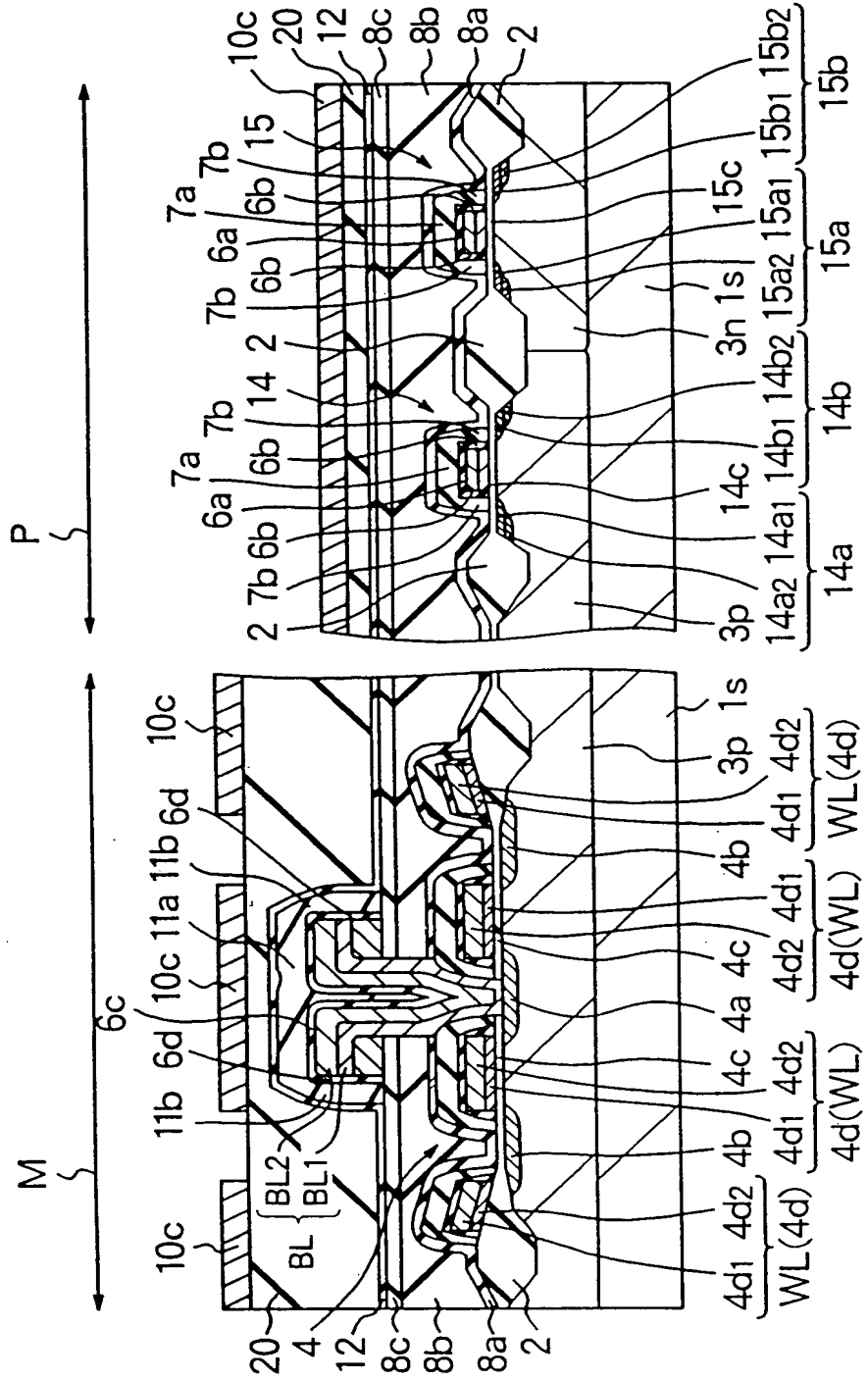
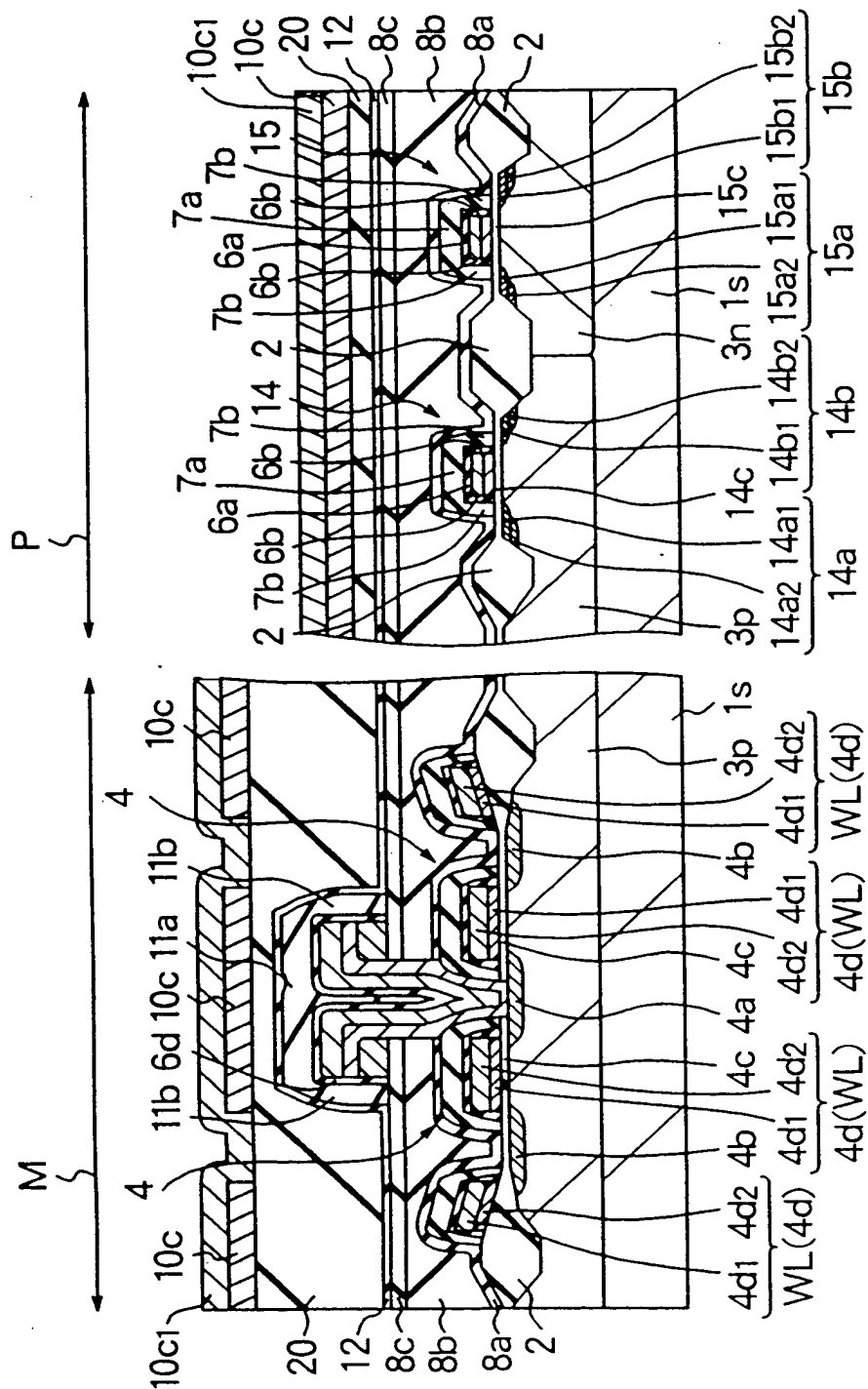


FIG. 9a



The figure consists of two cross-sectional views of a semiconductor device, labeled M and P.

- Region M:** This view shows a central channel region (2) flanked by source/drain regions (8a, 8b). Above the channel are gate electrodes (6d, 6e) and a gate insulating layer (7c). The substrate is divided into regions 4d1, 4d2, 4d3, and 4d4, which are collectively labeled WL(4d). A well layer (WL) is also indicated.
- Region P:** This view shows a similar structure but with different doping profiles. It includes gate electrodes (6a, 6b), a gate insulating layer (7a, 7b), and a channel region (2). The substrate regions are labeled 14a, 14b, 14c, 14d, 14e, 14f, 14g, 14h, 14i, 14j, 14k, 14l, 14m, 14n, 14o, 14p, 14q, 14r, 14s, 14t, 14u, 14v, 14w, 14x, 14y, 14z, 14aa, 14ab, 14ac, 14ad, 14ae, 14af, 14ag, 14ah, 14ai, 14aj, 14ak, 14al, 14am, 14an, 14ao, 14ap, 14aq, 14ar, 14as, 14at, 14au, 14av, 14aw, 14ax, 14ay, 14az, 14ba, 14bb, 14bc, 14bd, 14be, 14bf, 14bg, 14bh, 14bi, 14bj, 14bk, 14bl, 14bm, 14bn, 14bo, 14bp, 14bq, 14br, 14bs, 14bt, 14bu, 14bv, 14bw, 14bx, 14by, 14bz, 14ca, 14cb, 14cc, 14cd, 14ce, 14cf, 14cg, 14ch, 14ci, 14cj, 14ck, 14cl, 14cm, 14cn, 14co, 14cp, 14cq, 14cr, 14cs, 14ct, 14cu, 14cv, 14cw, 14cx, 14cy, 14cz, 14da, 14db, 14dc, 14dd, 14de, 14df, 14dg, 14dh, 14di, 14dj, 14dk, 14dl, 14dm, 14dn, 14do, 14dp, 14dq, 14dr, 14ds, 14dt, 14du, 14dv, 14dw, 14dx, 14dy, 14dz, 14ea, 14eb, 14ec, 14ed, 14ee, 14ef, 14eg, 14eh, 14ei, 14ej, 14ek, 14el, 14em, 14en, 14eo, 14ep, 14eq, 14er, 14es, 14et, 14eu, 14ev, 14ew, 14ex, 14ey, 14ez, 14fa, 14fb, 14fc, 14fd, 14fe, 14ff, 14fg, 14fh, 14fi, 14fj, 14fk, 14fl, 14fm, 14fn, 14fo, 14fp, 14fq, 14fr, 14fs, 14ft, 14fu, 14fv, 14fw, 14fx, 14fy, 14fz, 14ga, 14gb, 14gc, 14gd, 14ge, 14gf, 14gg, 14gh, 14gi, 14gj, 14gk, 14gl, 14gm, 14gn, 14go, 14gp, 14gq, 14gr, 14gs, 14gt, 14gu, 14gv, 14gw, 14gx, 14gy, 14gz, 14ha, 14hb, 14hc, 14hd, 14he, 14hf, 14hg, 14hh, 14hi, 14hj, 14hk, 14hl, 14hm, 14hn, 14ho, 14hp, 14hq, 14hr, 14hs, 14ht, 14hu, 14hv, 14hw, 14hx, 14hy, 14hz, 14ia, 14ib, 14ic, 14id, 14ie, 14if, 14ig, 14ih, 14ii, 14ij, 14ik, 14il, 14im, 14in, 14io, 14ip, 14iq, 14ir, 14is, 14it, 14iu, 14iv, 14iw, 14ix, 14iy, 14iz, 14ja, 14jb, 14jc, 14jd, 14je, 14jf, 14jg, 14jh, 14ji, 14jj, 14jk, 14jl, 14jm, 14jn, 14jo, 14jp, 14jq, 14jr, 14js, 14jt, 14ju, 14jv, 14jw, 14jx, 14jy, 14jz, 14ka, 14kb, 14kc, 14kd, 14ke, 14kf, 14kg, 14kh, 14ki, 14kj, 14kk, 14kl, 14km, 14kn, 14ko, 14kp, 14kq, 14kr, 14ks, 14kt, 14ku, 14kv, 14kw, 14kx, 14ky, 14kz, 14la, 14lb, 14lc, 14ld, 14le, 14lf, 14lg, 14lh, 14li, 14lj, 14lk, 14ll, 14lm, 14ln, 14lo, 14lp, 14lq, 14lr, 14ls, 14lt, 14lu, 14lv, 14lw, 14lx, 14ly, 14lz, 14ma, 14mb, 14mc, 14md, 14me, 14mf, 14mg, 14mh, 14mi, 14mj, 14mk, 14ml, 14mn, 14mo, 14mp, 14mq, 14mr, 14ms, 14mt, 14mu, 14mv, 14mw, 14mx, 14my, 14mz, 14na, 14nb, 14nc, 14nd, 14ne, 14nf, 14ng, 14nh, 14ni, 14nj, 14nk, 14nl, 14nm, 14nn, 14no, 14np, 14nq, 14nr, 14ns, 14nt, 14nu, 14nv, 14nw, 14nx, 14ny, 14nz, 14oa, 14ob, 14oc, 14od, 14oe, 14of, 14og, 14oh, 14oi, 14oj, 14ok, 14ol, 14om, 14on, 14oo, 14op, 14oq, 14or, 14os, 14ot, 14ou, 14ov, 14ow, 14ox, 14oy, 14oz, 14pa, 14pb, 14pc, 14pd, 14pe, 14pf, 14pg, 14ph, 14pi, 14pj, 14pk, 14pl, 14pm, 14pn, 14po, 14pp, 14pq, 14pr, 14ps, 14pt, 14pu, 14pv, 14pw, 14px, 14py, 14pz, 14qa, 14qb, 14qc, 14qd, 14qe, 14qf, 14qg, 14qh, 14qi, 14qj, 14qk, 14ql, 14qm, 14qn, 14qo, 14qp, 14qq, 14qr, 14qs, 14qt, 14qu, 14qv, 14qw, 14qx, 14qy, 14qz, 14ra, 14rb, 14rc, 14rd, 14re, 14rf, 14rg, 14rh, 14ri, 14rj, 14rk, 14rl, 14rm, 14rn, 14ro, 14rp, 14rq, 14rr, 14rs, 14rt, 14ru, 14rv, 14rw, 14rx, 14ry, 14rz, 14sa, 14sb, 14sc, 14sd, 14se, 14sf, 14sg, 14sh, 14si, 14sj, 14sk, 14sl, 14sm, 14sn, 14so, 14sp, 14sq, 14sr, 14ss, 14st, 14su, 14sv, 14sw, 14sx, 14sy, 14sz, 14ta, 14tb, 14tc, 14td, 14te, 14tf, 14tg, 14th, 14ti, 14tj, 14tk, 14tl, 14tm, 14tn, 14to, 14tp, 14tq, 14tr, 14ts, 14tt, 14tu, 14tv, 14tw, 14tx, 14ty, 14tz, 14ua, 14ub, 14uc, 14ud, 14ue, 14uf, 14ug, 14uh, 14ui, 14uj, 14uk, 14ul, 14um, 14un, 14uo, 14up, 14uq, 14ur, 14us, 14ut, 14uu, 14uv, 14uw, 14ux, 14uy, 14uz, 14va, 14vb, 14vc, 14vd, 14ve, 14vf, 14vg, 14vh, 14vi, 14vj, 14vk, 14vl, 14vm, 14vn, 14vo, 14vp, 14vq, 14vr, 14vs, 14vt, 14vu, 14vv, 14vw, 14vx, 14vy, 14vz, 14wa, 14wb, 14wc, 14wd, 14we, 14wf, 14wg, 14wh, 14wi, 14wj, 14wk, 14wl, 14wm, 14wn, 14wo, 14wp, 14wq, 14wr, 14ws, 14wt, 14wu, 14wv, 14ww, 14wx, 14wy, 14wz, 14xa, 14xb, 14xc, 14xd, 14xe, 14xf, 14xg, 14xh, 14xi, 14xj, 14xk, 14xl, 14xm, 14xn, 14xo, 14xp, 14xq, 14xr, 14xs, 14xt, 14xu, 14xv, 14xw, 14xx, 14xy, 14xz, 14ya, 14yb, 14yc, 14yd, 14ye, 14yf, 14yg, 14yh, 14yi, 14yj, 14yk, 14yl, 14ym, 14yn, 14yo, 14yp, 14yq, 14yr, 14ys, 14yt, 14yu, 14yv, 14yw, 14yx, 14yy, 14yz, 14za, 14zb, 14zc, 14zd, 14ze, 14zf, 14zg, 14zh, 14zi, 14zj, 14zk, 14zl, 14zm, 14zn, 14zo, 14zp, 14zq, 14zr, 14zs, 14zt, 14zu, 14zv, 14zw, 14zx, 14zy, 14zz.



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